|                       | Mezzanine Ins                         | pection Rep      | ort                       |
|-----------------------|---------------------------------------|------------------|---------------------------|
| <b>Date:</b> 01/14/15 | Station Name: K06 - West Falls Church | Mezzanine #: 101 | Completed By: Mike Butler |

## **Summary**

Pull string installation was completed for communication duct in faregate array, however video scoping could not be completed due to an obstruction at 15' from Kiosk. Video scoping could not be completed for power duct in faregate array because the duct is at capacity. Video scoping and pull string installation could not be completed in power duct between Kiosk, Handhole and AFC Panel because the duct is at capacity.

Scanning was conducted to establish a proposed power route between the Kiosk and AFC Panel. The scanning results showed that the mezzanine floor is congested with ducts and there is no clear path for a proposed in-floor duct from the Kiosk to the AFC Panel. An overhead conduit is proposed from the Kiosk to AFC Panel, which will run up vertically from the Kiosk and run across the mezzanine ceiling until it reaches the outer wall between the mezzanine and Room 210. The wall will be core drilled to allow the conduit to pass through. The conduit will run across the ceiling plenum of Room 210 and pass through the next wall between Room 210 and Room 212 (by core drilling). Once inside Room 212, the conduit will snake around the internal wall until it reaches the AFC Panel.

Refer to attached photos and drawings for further information.

|  | Sconing | of Faregate Array(s)  |
|--|---------|---|
| Task   |         | Notes   |
|  | Yes/No  | Notes   |
| Communications Duct –Faregate Array (9 gates)  | l       |   |
| Was video scoping completed for the entire duct run?   | No      |   |
| Were pull strings installed at all faregates in the array?   | Yes     | Pull string installed in 6" duct.   |
| Were there any obstructions or blockages? Provide details of type and specific location.               | Yes     | There was an obstruction at 15' from Kiosk, which appeared to be congested wires (6" duct) and heavy concrete debris (4" duct). |
| Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires. | No      | 4" and 6" ducts with less than 15 wires.  |
|  |         |   |
|  |         |   |
|  |         |   |
|  |         |   |
|  |         |   |
|  |         |   |
| Power Duct - Faregate Array (9 gates)  |         |   |
| Was video scoping completed for the entire duct run?   | No      |   |
| Were there any obstructions or blockages? Provide details of type and specific location.               | Yes     | Duct obstructed at 2' from Kiosk.   |
| Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires. | Yes     | 4" power duct at 80% capacity (more than 20 wires).   |
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|  |         |   |
|  |         |   |

| Scoping of Power Duct - Kiosk to AFC Panel            |   |             |  |         |
|---|---|-------------|--|---------|
|   | Task  | Yes/No      | Notes                                    |         |
| Kiosk to Handho                                       | le (Distance: 42')  |             |  |         |
| Was video scopi conduit run?                          | ing completed for the entire duct /                                   | No          |  |         |
| Was pull string ir                                    | nstalled?   | No          |  |         |
|   | obstructions or blockages? Provide d specific location.               | Yes         | Wire congestion caused an obstruction.   |         |
| Is the duct / cond details about the number of wires. | luit at capacity? Provide additional dimensions of duct / conduit and | Yes         | 3" duct is at 80% capacity (more than 20 | wires). |
| Handhole to AFC                                       | Panel (Distance: 18')   |             |  |         |
| Was video scop<br>conduit run?                        | ing completed for the entire duct /                                   | No          |  |         |
| Was pull string in                                    | nstalled?   | No          |  |         |
|   | obstructions or blockages? Provide id specific location.              | Yes         | Wire congestion caused an obstruction.   |         |
|   | duit at capacity? Provide additional dimensions of duct / conduit and | Yes         | 5" duct is at 80% capacity (more than 20 | wires). |
|   |   | •           |  |         |
|   |   |             |  |         |
|   |   |             |  |         |
|   |   |             |  |         |
|   |   |             |  |         |
|   |   | Observation | / Issues / Next Steps                    |         |
| Total distance of                                     | proposed overhead conduit from Ki                                     | iosk to AFC | nel is 88'.                              |         |
|   |   |             |  |         |
|   |   |             | ign Off                                  |         |
|   | GFP Representative  |             | WMA                                      | TA PRGM |
| Name:   | Mike Butler   |             |  |         |
| Signature:  | M.Zur   |             |  |         |
| Date:   | 03/23/15  |             |  |         |

Photo 1 – Existing duct on mezzanine floor



Photo 2 – Existing duct on mezzanine floor

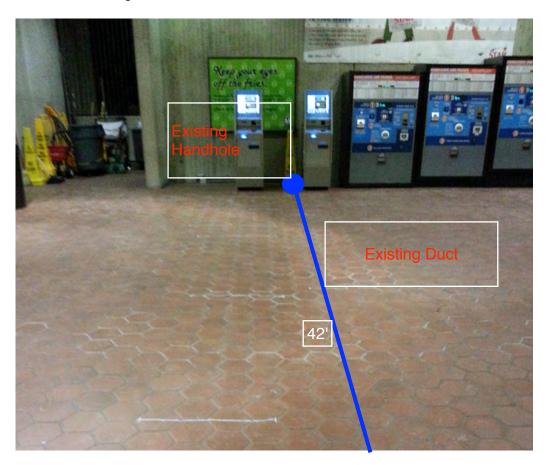


Photo 3 – Proposed overhead conduit

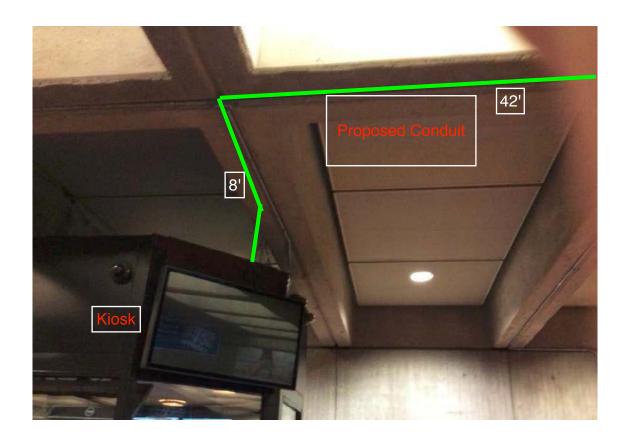


Photo 4 – Proposed overhead conduit

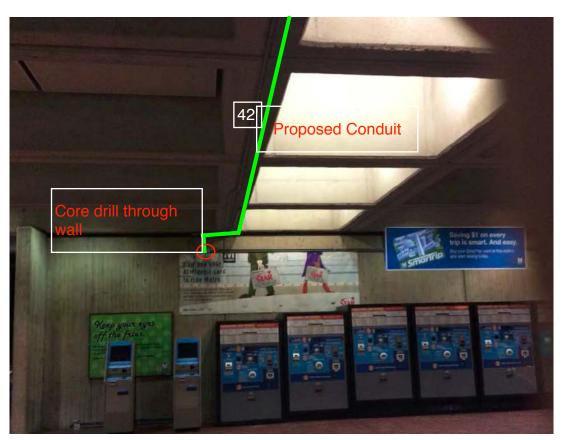


Photo 5 – Proposed conduit in Room 210 ceiling plenum

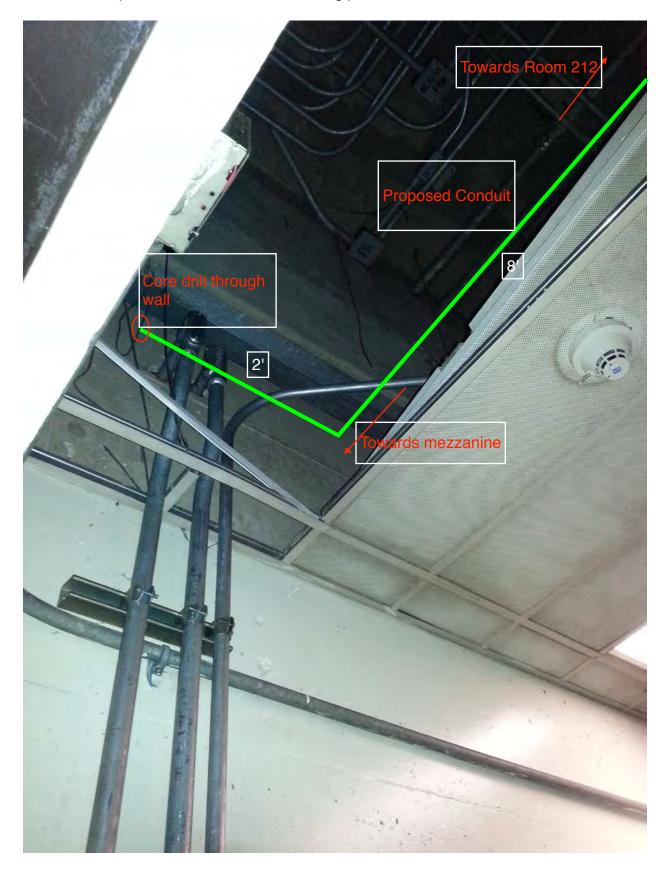


Photo 6 – Proposed conduit in Room 212.

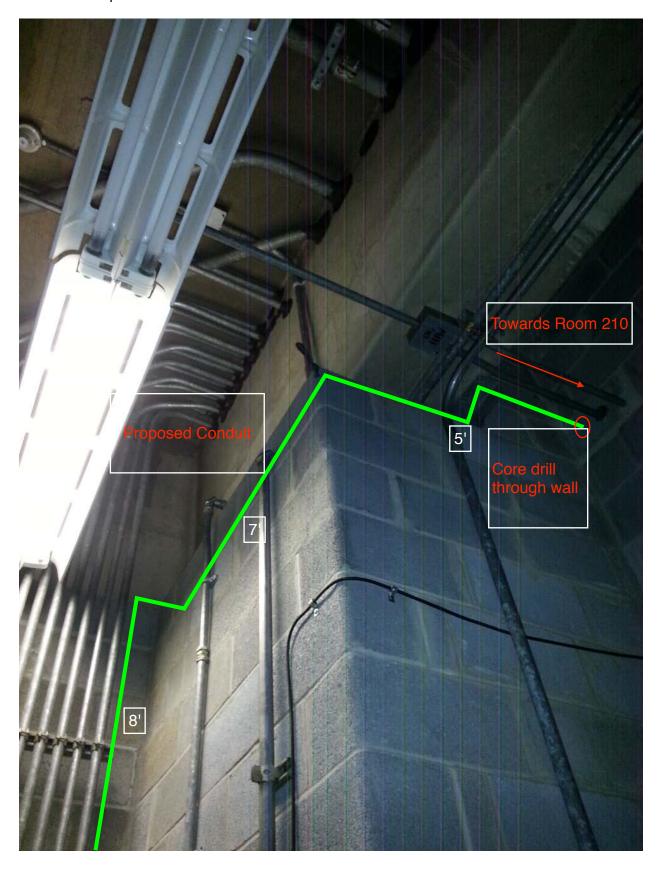
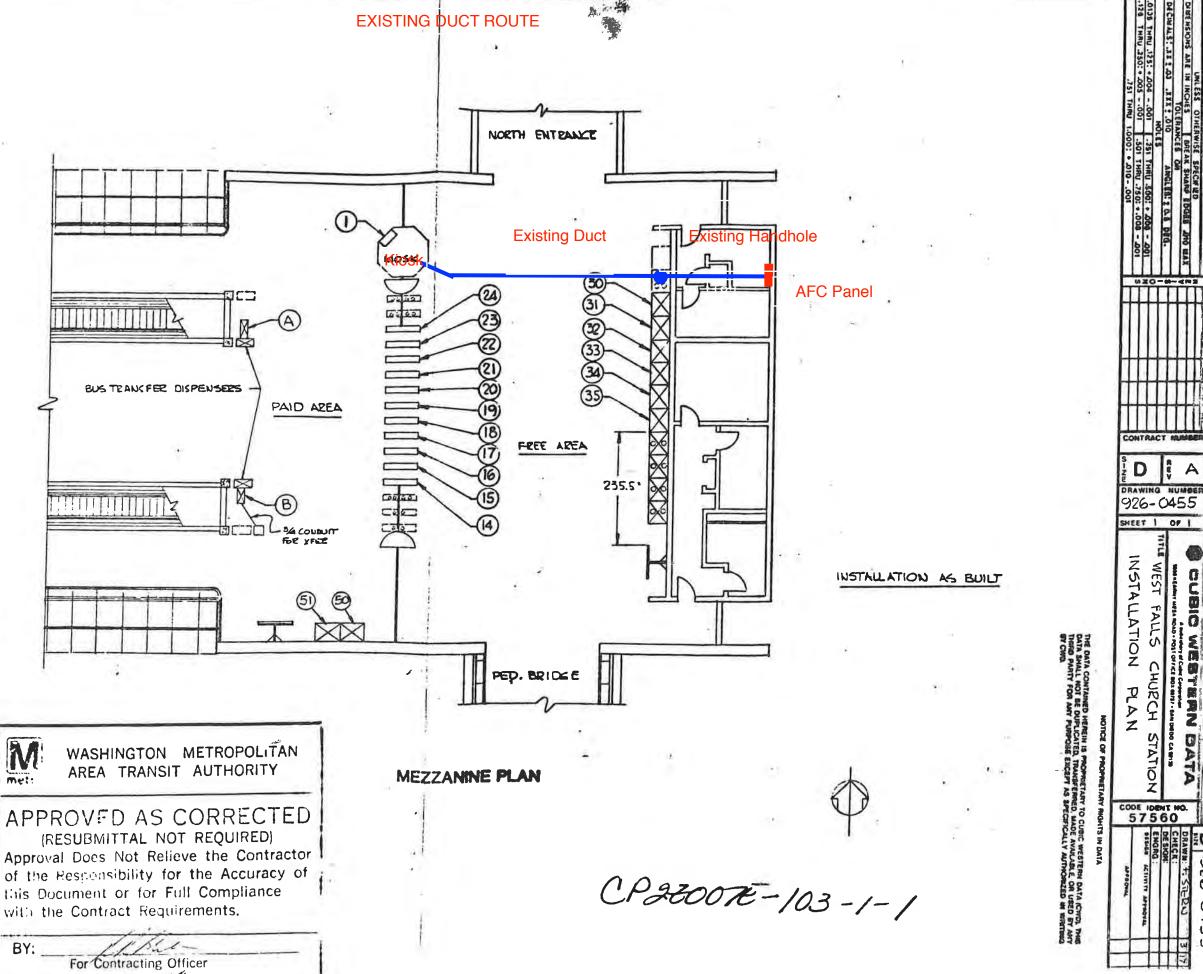
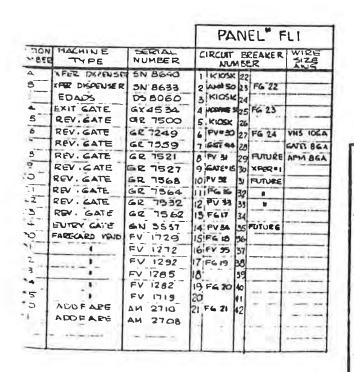


Photo 7 – Proposed conduit in Room 212.





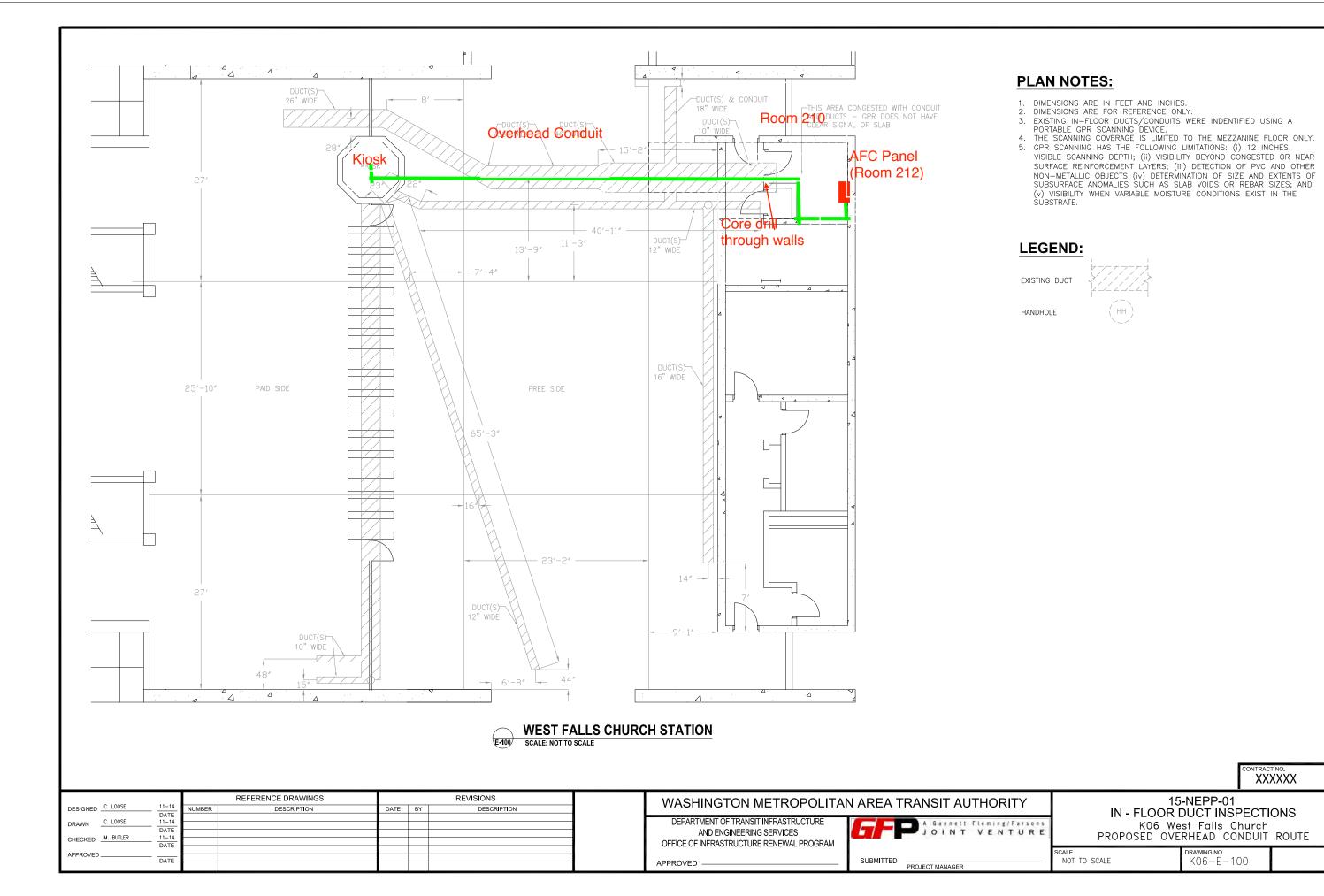


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## Mezzanine Inspection Report (Scoping)

Date: 02/25/2015 Station Name: K07 Dunn Loring Mezzanine #: 102 Completed By: Zach Fitzwater

## Summary

Video scoping and pull string installation was completed for the communication ducts in the upper and lower faregate arrays. Video scoping was completed for the power ducts in the upper and lower faregate arrays. Ducts for the lower faregate arrays pass through one handhole at a 90 degree bend. Ducts for the upper faregate arrays pass through two handholes with two 90 degree bends. Video scoping and pull string installation was only partially completed for the power run from the kiosk to the AFC panel. Power duct from kiosk to handhole 4, which is the first handhole in this run, was at capacity and could not be scoped and pull string was not installed. Pull string was installed between handhole 4 and the AFC panel.

Scanning was completed at this station. A proposed duct run will run parallel to the existing ducts on the outside edge near the far wall towards the back rooms. The duct will run from the kiosk to just inside the door to Room #301 to a proposed handhole. The proposed power run will transition to conduit at the proposed handhole and enter the AFC panel near the bottom on the side of the panel.

Photos and

drawings are for reference purposes only; see new schematic drawing/proposed pathway on last page.

| Scoping of Faregate Array(s)   |        |  |  |  |
|--|--------|--|--|--|
| Task   | Yes/No | Notes  |  |  |
| Communications Duct - Upper Faregate Array (5 G  | iates) |  |  |  |
| Was video scoping completed for the entire duct run?   | Yes    | Refer to WMATA Dunn Loring Station 3inch Upper Comm Duct kiosk to HH1 to HH2 to Last Faregate.avi file.  |  |  |
| Were pull strings installed at all faregates in the array?   | Yes    |  |  |  |
| Were there any obstructions or blockages? Provide details of type and specific location.               | No     |  |  |  |
| Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires. | No     | 3" duct less than 15 wires   |  |  |
| Communications Duct - Lower Faregate Array (4 G  | ates)  |  |  |  |
| Was video scoping completed for the entire duct run?   | Yes    | Refer to WMATA Dunn Loring Station 3inch Lower Comm Duct Kiosk to HH to Last faregate.avi file.  |  |  |
| Were pull strings installed at all faregates in the array?   | Yes    |  |  |  |
| Were there any obstructions or blockages? Provide details of type and specific location.               | No     |  |  |  |
| Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires. | No     | 3" duct less than 15 wires   |  |  |
| Power Duct - Upper Faregate Array (5 Gates)  |        |  |  |  |
| Was video scoping completed for the entire duct run?   | Yes    | Refer to WMATA Dunn Loring Station 6inch Upper Power duct Kiosk to HH1.avi, WMATA Dunn Loring 6inch Upper Power HH1 to HH2.avi, and WMATA Dunn Loring 6inch Upper Power HH2 to Faregate.avi files. |  |  |
| Were there any obstructions or blockages? Provide details of type and specific location.               | No     |  |  |  |
| Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires. | No     | 6" duct less than 15 wires   |  |  |
| Power Duct - Lower Faregate Array (4 Gates)  |        |  |  |  |
| Was video scoping completed for the entire duct run?   | Yes    | Refer to WMATA Dunn Loring Station 6inch Lower Power Duct Kiosk to HH1.avi and WMATA Dunn Loring 6inch Lower Power HH1 to Faregate.avi files.  |  |  |
| Were there any obstructions or blockages? Provide details of type and specific location.               | No     |  |  |  |
| Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires. | No     | 6" duct less than 15 wires   |  |  |

| Scoping of Power Duct - Klosk to AFC Panel                  |  |                |             |   |  |
|---|--|----------------|-------------|---|--|
| Kiosk to Handhol  | Task   | Yes/No         |             | Notes   |  |
|   | ng completed for the entire duct /                                   |                | Refer to V  | VMATA Dunn Loring Station 6inch Power Feed Kiosk to AFC.avi     |  |
| conduit run?  | ing completed for the entire duct?                                   | No             | file.       | VINATA Durin Loring Station officers ower reed Nosk to Ar C.avi |  |
| Was pull string in  | stalled?   | No             |             |   |  |
|   | bstructions or blockages? Provide d specific location.               | Yes            | Duct at ca  | pacity and camera could not be pushed through duct              |  |
| details about the onumber of wires.                         | uit at capacity? Provide additional dimensions of duct / conduit and | Yes            | 6" duct at  | 80% capacity  |  |
| Handhole 4 to AF  | C Panel (5')   |                | 1           |   |  |
| Was video scopii<br>conduit run?                            | ng completed for the entire duct /                                   | No             | Camera o    | ould not get past vertical 90 degree bend to AFC panel.         |  |
| Was pull string in  | stalled?   | Yes            |             |   |  |
|   | bstructions or blockages? Provide d specific location.               | No             |             |   |  |
| Is the duct / condi-<br>details about the onumber of wires. | uit at capacity? Provide additional dimensions of duct / conduit and | No             | Two 6" du   | cts less than 15 wires each                                     |  |
|   |  |                | I           |   |  |
|   |  |                |             |   |  |
|   |  |                |             |   |  |
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|   |  |                |             |   |  |
|   |  |                |             |   |  |
|   |  | Observation    | is / Issues | Next Steps  |  |
| Evicting power =:   |  |                |             |   |  |
|   | n approximately 28' of duct. proximately 25' of duct and 5' of con   | duit for a tot | al of 30'.  |   |  |
|   |  |                |             |   |  |
|   |  |                | Sign Off    |   |  |
|   | GFP Representa   | tive           |             | WMATA PRGM  |  |
| Name:   | Zach Fitzwater   |                |             |   |  |
| Signature:  | 1 of J and   |                |             |   |  |
| Date:   | 02/25/2015   |                |             |   |  |

Photo #1 – K07 Dunn Loring: Ducts on Mezzanine floor

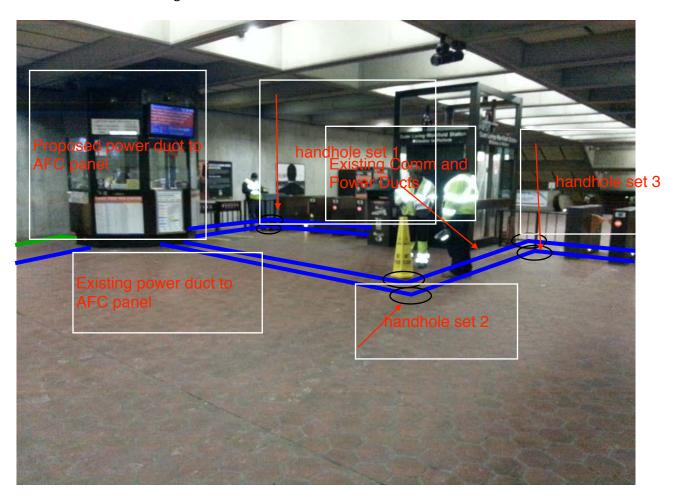


Photo #2 – K07 Dunn Loring: Proposed and Existing runs towards AFC panel

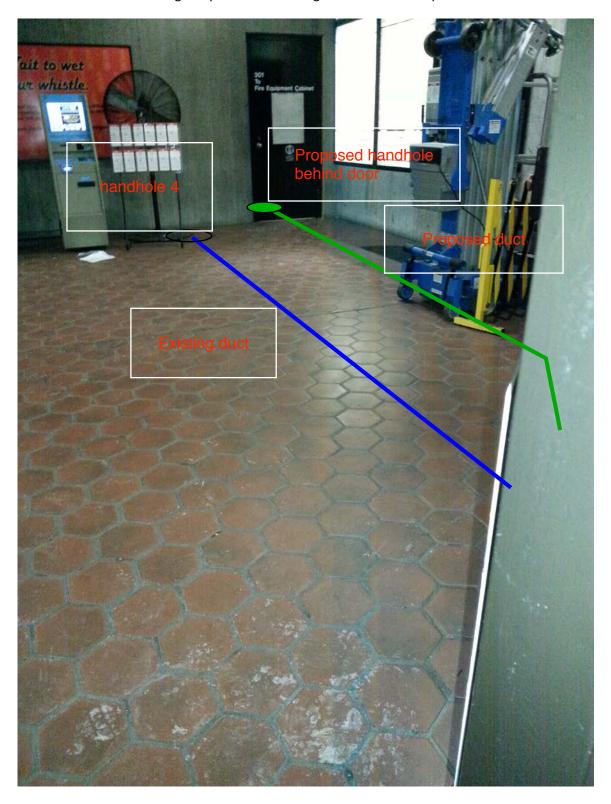
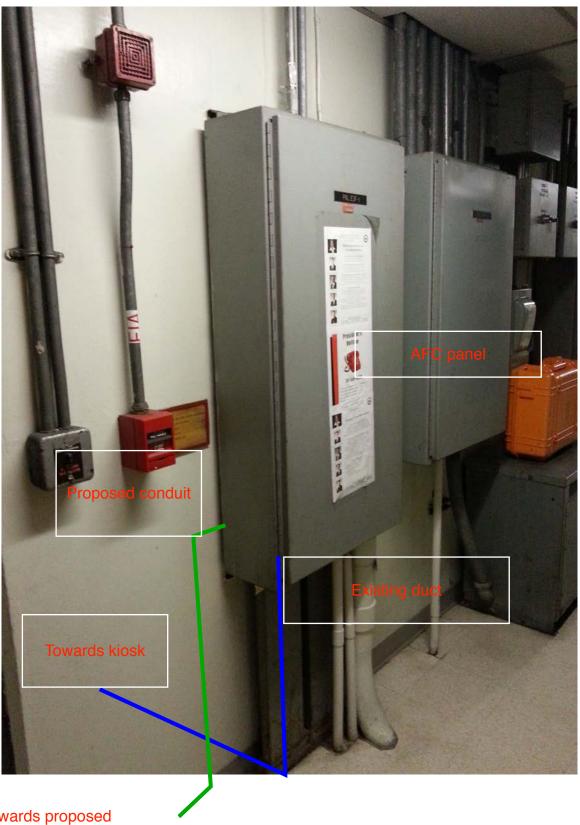


Photo #3 – K07 Dunn Loring: Proposed and Existing runs at AFC panel



Towards proposed handhole

